

"Made available under NASA sponsorship
in the interest of early and wide dis-
semination of Earth Resources Survey
Program information and without liability
for any use made thereof."

SKYLAB

MONTHLY REPORT #2 (Sept. 1, 1973)

E7.3-11003

CR-133786

A. TITLE: FEASIBILITY OF USING S-191 INFRARED SPECTRA FOR GEOLOGICAL
STUDIES FROM SPACE

B. PRINCIPAL INVESTIGATORS: R.J.P. Lyon: A.A. Green
School of Earth Sciences
Stanford University
Stanford, California 94305

Phone (415) 321-2300 ext 4147/2747

C. PROPOSAL #9641 Contract # NAS 9-13357

D. TECHNICAL MONITORS: Larry York: Tim White
Code TF 6
Johnson Spacecraft Center
Houston, Texas 77058

Phone (713) 483-2526

E. PERIOD: August 2 - September 1, 1973

Remote Sensing Laboratory

Stanford University

Stanford, California

94305

(E73-11003) FEASIBILITY OF USING S-191
INFRARED SPECTRA FOR GEOLOGICAL STUDIES
FROM SPACE Monthly Report, 2 Aug. - 1
Sep. 1973 (Stanford Univ.) 3 p HC \$3.00

N73-31308

CSCL 08G G3/13 01003

Unclas

F. OVERALL STATUS:

1. SL3 overflight in perfect weather over Walker Lake on our preferred track #6 occurred August 11. The RB-57 was reported to be over the site (Yerington-Walker Lake-Garfield Playa) beginning at 0800 PST.
2. We had a ground crew monitoring at Walker Lake (using a boat), and taking temperature (contact and radiometric), along with wet and dry bulb temperature etcetera from 0730-0930 PST.
3. Jack Quade of University of Nevada EREP group monitored Garfield Playa (southeast of Hawthorne) for us taking both temperatures and sky irradiance (ISCO) readings, from 0730-1030 PST.
4. The PI was flying in a Cessna 185, 1000 feet above Walker Lake, using a PRT5 radiation thermometer and taking readings of the apparent surface temperature every 10 seconds, using positional fixer by eye from the shore and recording the data directly onto U2 photography of the area.

G. RECOMMENDATIONS

None

H. EXPECTED ACCOMPLISHMENTS FOR THE NEXT PERIOD

Data reduction, position plotting and annotation of the 130 photos taken by the PI while flying down the ground track of SL3.

I. SIGNIFICANT RESULTS

SL3-Apparently everything worked, in all systems at four vertical levels in the observational column in the atmosphere (boat, light aircraft, RB57, and SL3) on the clearest day for years.

J. SUMMARY OF FUTURE EFFORT

1. Location of ground track of IR Pallet on RB57 aircraft.
2. Inspection on ground.
3. Selection of spectra for specific analysis.
4. Repeat for S191 on SL3 using ground spectrometer

K. TRAVEL SUMMARY AND PLANS

Field work along SL3 and RB57 ground tracks.

L. MILESTONE REPORT

See following page.

MILESTONE CHART
(UPDATED AUG 1973)

[illegible]